

Revision: 13.05.2026

PRODUCT NAME	ITEM NO.	SUPPLEMENTARY DETAILS
Atm-CoolCut	95004145	1 l
	95004146	5 l
	95004147	10 l

Description	Water-soluble coolant and corrosion inhibitor (coolant) for wet cut-off grinding of specimens in materialography.
Material	Despite the listed hazardous substances, no limit values subject to tendering are exceeded. The product is not subject to classification according to CLP.
Properties	<p>The coolant forms a clear, yellowish solution in the aqueous one. The concentrate is orange-yellow in colour, low viscosity and has a faint characteristic odour.</p> <p>Technical characteristics</p> <p>Mixing ratio 1:25 (4%) – 1:17 (6%) / Refractometer: 2.0%/°Bx pH (5%): [9,4] Density (concentrate, 20 °C): [1.058]</p>
Application	<p>Synthetic, formaldehyde donor-, nitrite- and mineral oil-free, water-soluble concentrate for use with medium to high water hardness (3.5-20° dH). The cooling lubricant solution cools and lubricates the cutting process during wet cut-off grinding or similar machining processes. The organic components inhibit corrosion phenomena on the machine and sample material. Depending on the material to be separated, the addition of further additives may be necessary. The coolant and corrosion inhibitor is to be prepared in a mixing ratio of 1:25 (4%) – 1:17 (6%). This specification refers to cutting machines that are confronted with a wide range of materials, for specific applications other mixing ratios may be more advantageous. When adjusting the coolant concentration, always use a diluted coolant solution (0.5–1%) instead of adding pure water. The mixture must be circulated before the cutting machine is put into operation. Regular monitoring of the medium is necessary. The application concentration can be checked using a handheld refractometer. Refractometer factor (K-factor): [2.0%/°Bx] Concentration [%] = measured value × K-factor</p> <p>ATM CoolCut is suitable for materialographic wet cutting of steel and cast materials, for non-ferrous and non-ferrous metals as well as comparable machining processes with moderate thermal stress. It is not suitable for tungsten carbide and magnesium alloys. Modification of the coolant with ATM-CoolAdd NF, ATM CoolAdd CU, defoamer and ATM-CoolClean B is possible</p> <p>TRGS 611:</p> <p>The product complies with the requirements of TRGS 611 (avoidance of nitrosamine formation in water-miscible cooling lubricants). The formulation is inhibited, so that the formation of nitrosamines in the application is effectively prevented. Even with minor nitrite inputs, the product can be classified as non-nitrosable. The prerequisite is proper use and maintenance of the coolant system.</p>

<p>Health and safety</p>	<p>The occupational exposure limits of the hazardous substances contained must be observed. Wear suitable protective clothing, protective gloves (NBR or CR rubber with breakthrough time suitable for the duration of contact) and tight-fitting safety goggles (at least framed glasses). In the event of dermal exposure, affected areas of the skin should be thoroughly cleaned with soap and water. Cutting machines should be set up in a well-ventilated workplace, extractors and centrifugal separators offer further protection against inhalation exposure. Further information on first aid measures and safety instructions can be found in the SDS.</p>
<p>Environmental precautions</p>	<p>The product is assigned to WGK 2. A release into ground/surface water and sewerage must be prevented. Disposal must be carried out in accordance with local legislation. The prescribed process can vary depending on the application of the cooling lubricant, and in general the product must not be disposed of with household waste (waste code 120109*). In the event of a fire, CO₂, extinguishing powder or water spray must be used. Combustion produces toxic compounds, which make it necessary to wear breathing apparatus that is independent of ambient air.</p>
<p>Storage</p>	<p>The product belongs to storage class 12 (TGRS 510). It is cool (3-30°C) and dry to store. The product should not be stored together with strong oxidizing agents. The containers must always be kept tightly closed. The storage location should be able to prevent contamination of soil and water due to product leakage. There are no further restrictions on joint storage.</p>